



**CONCLUSION**

Early and favorable action is earnestly solicited.

Respectfully submitted,

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File No. IN01164 K US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Hosted, *et al.*

Serial No.: 09/855,340

Group Art Unit: 1645

Filed: May 15, 2001

Examiner: To be assigned

For: ISOLATION OF MICROMONOSPORA CARBONACEA VAR AFRICANA PMLP1  
INTEGRASE AND USE . . .

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**MARKED-UP AMENDMENT UNDER 37 C.F.R. §1.121**

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

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Sir:

The present Marked-Up Amendment shows all changes made to the claims in the enclosed Preliminary Amendment.

**In the claims:**

1 (Amended). An isolated polynucleotide comprising a nucleotide sequence [at least about ninety percent (90%) homologous to a sequence] selected from the group consisting of SEQ ID NOS: 1-3.

6 (Amended). A recombinant vector comprising one or more [of a] nucleotide sequences [sequence at least about ninety percent (90%) homologous to a sequence] selected from the group consisting of SEQ ID NOS: 1-3.

10 (Amended). The recombinant vector of claim [7] 8, wherein said vector is an integrating vector.

12 (Amended). A host cell comprising the vector of claim [7] 8.

18 (Amended). A method for transforming an actinomycete with a vector comprising [:

a) isolating] a polynucleotide comprising a nucleotide sequence[ at least ninety percent (90%) homologous to a sequence] selected from the group consisting of SEQ ID NOS: 1-3 comprising the step of [;

b) inserting said polynucleotide or polynucleotides into a vector;

c) exposing] contacting said actinomycete [to] with said vector under conditions permitting [for] transformation of said actinomycete.

20 (Amended). The method of claim [19] 18, wherein said polynucleotide comprises all of the nucleotide sequences set forth in SEQ ID NOS: 1-3.

21 (Amended). The method of claim 20, wherein said [method further] vector comprises [introducing] a promoter [into said vector].

22 (Amended). An isolated polynucleotide comprising a nucleotide sequence [at least about ninety percent (90%) homologous to a sequence] selected from the group consisting of SEQ ID NOS: 4-9.

**In the specification:** Please replace the first sentence on page 24 with:

**WE CLAIM:** [IN THE CLAIMS:]